Technical information.

Complete Loewe range 2008

LOEWE.

	Spheros **R 37 Full-HD+ LCD-TV**	**R 32 HD+100 LCD-TV**
Image		
Display technology	Full-HD LCD technology	HD 100Hz LCD technology
Screen diagonal (in cm) / Picture format	94 / 16 : 9	80 / 16 : 9
Resolution (in pixels)	1,920 x 1,080	1,366 x 768
Picture frequency	50 Hz	100 Hz
Brightness (in cd / m²)	500	500
Contrast (static / dynamic)	1.200:1 / 6.000:1	1.200:1 / 6.000:1
Response time (in ms)	8	8
Viewing angle (horizontal / vertical)	176° / 176°	178° / 178°
24 p cinema film display	—	●
Fully digitised signal processing	●	●
Vertical image correction	●	●
Format options 16 : 9, 4 : 3, Panorama, Cine, Zoom	●	●
Audio		
Sound+ / CRX® sound system	● / ●	● / ●
Output in Watts (music)	2 x 40	2 x 40
Closed 2-way speakers / full range speakers	● / —	● / —
Dolby Digital [1] / dts / Virtual Dolby Surround [1] / Panorama	● / ● / ● / ●	● / ● / ● / ●
Two-channel / Controlled audio OUT (constantly selectable)	● / ●	● / ●
Television standards		
Multi-standard (analogue)	●	●
Integrated DVB-T	●	●
Colour standard: PAL / Secam / NTSC / NTSC-V / PAL-V (60 Hz)	● / ● / ● / ● / ●	● / ● / ● / ● / ●
Audio standard: Two-channel FM / AM, Nicam	● / ●	● / ●
Video Decoding System: MPEG2 / MPEG4	● / ●	● / ●
Audio Decoding System: MPEG	●	●
Operation		
Electronic Instruction Manual / Index / Context Related Help	● / ● / ●	● / ● / ●
Automatic Channel Programming (ACP) / Channel recognition	● / ●	● / ●
Automatic Volume Control (AVC) / Automatic Signal Switch (ASS)	● / ●	● / ●
Programme positions incl. AV and radio	4,000	4,000
Video text Level 2.5 / FLOF-Video text / Page memory	● / ● / 2,000	● / ● / 2,000
Personalised Video text with direct access to bookmarked pages	● / ●	● / ●
EPG incl. Digital Link Plus	●	●
DR+ / storage capacity in GB	● / 160	● / 160
Parental Lock / Automatic turn-off / Timer	● / ● / ●	● / ● / ●
Digital Link Plus / Digital Link / Digital Link HD	● / ● / —	● / ● / ●
Languages / menu	18 [2]	18 [2]
Radio reception	DVB radio	DVB radio
PIP (AV) / Full PIP [3] / iPIP	● / ● / ●	● / ● / ●
Splitscreen TV/TV, TV/video text	● / ●	● / ●
Connectors		
Euro AV (Scart)	2	2
S-VHS, Hi8 / RGB / Component Video Input-ready	2 / 1 / 1	2 / 1 / 1
HDMI with HDCP	2	2
USB-In	1	2
Digital Audio-In (Cinch) / Digital Audio-Out (Cinch)	1 / 1	1 / 1
Headphone (jack) in mm	3.5	3.5
Copy function Front-AV to Euro-AV / Euro-AV to Euro-AV	● / ●	● / ●
L-Link	●	●
VGA / RS 232 C / Motor control	● / ● / ●	● / ● / ●
Side AV Video-/S-VHS, Hi-8 ready	1 / 1	1 / 1
Component (YUV) In	●	●
Common Interface	2	2
Miscellaneous		
Power switch	●	●
Mains voltages	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
Power consumption in stand-by mode / when set turned off (in Watts)	2.4 / 0	1.2 / 0
Power consumption "ON" [4] (in Watts) / Energy consumption per year (in KWh)	115 / 185	95 / 147
VDE-safety standard (inspection seal)	●	●

Further technical details about Spheros can be found in the 2008 complete range catalogue on pages 38/39.

● = included/installed ○ = upgradeable/optional □ = Variant ex works

[1] Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

[2] D-E-F-I-GB-NL-P-PL-CZ-DK-S-HU-FIN-SLN-TR-SK-RUS-GR

[3] Not with MPEG4.

[4] To EN 62087.

	Individual **52 Compose Full-HD+ 100 LCD-TV**	**46 Compose Full-HD+ 100 LCD-TV**
Image		
Display technology	Full-HD 100Hz LCD technology	Full-HD 100Hz LCD technology
Screen diagonal (in cm) / Picture format	132 / 16 : 9	117 / 16 : 9
Resolution (in pixels)	1,920 x 1,080	1,920 x 1,080
Picture frequency	100 Hz	100 Hz
Brightness (in cd / m²)	500	500
Contrast (static / dynamic)	2.000:1 / 10.000:1	2.000:1 / 10.000:1
Response time (in ms)	8	8
Viewing angle (horizontal / vertical)	178° / 178°	178° / 178°
24 p cinema film display	●	●
Fully digitised signal processing	●	●
Vertical image correction	●	●
Format options 16 : 9, 4 : 3, Panorama, Cine, Zoom	●	●
Audio		
Sound+ / CRX® sound system	● / —	● / —
Output in Watts (music)	2 x 40	2 x 40
Closed 2-way speakers / full range speakers	○ / —	○ / —
Dolby Digital [1] / dts / Virtual Dolby Surround [1] / Panorama	● / ● / ● / ●	● / ● / ● / ●
Two-channel / Controlled audio OUT (constantly selectable)	● / ●	● / ●
Television standards		
Multi-standard (analogue)	●	●
Integrated DVB-T	●	●
Colour standard: PAL / Secam / NTSC / NTSC-V / PAL-V (60 Hz)	● / ● / ● / ● / ●	● / ● / ● / ● / ●
Audio standard: Two-channel FM / AM, Nicam	● / ●	● / ●
Video Decoding System: MPEG2 / MPEG4	● / ●	● / ●
Audio Decoding System: MPEG	●	●
Operation		
Electronic Instruction Manual / Index / Context Related Help	● / ● / ●	● / ● / ●
Automatic Channel Programming (ACP) / Channel recognition	● / ●	● / ●
Automatic Volume Control (AVC) / Automatic Signal Switch (ASS)	● / ●	● / ●
Programme positions incl. AV and radio	4,000	4,000
Video text Level 2.5 / FLOF-Video text / Page memory	● / ● / 2,000	● / ● / 2,000
Personalised Video text with direct access to bookmarked pages	● / ●	● / ●
EPG incl. Digital Link Plus	●	●
DR+ / storage capacity in GB	● / 160	● / 160
Parental Lock / Automatic turn-off / Timer	● / ● / ●	● / ● / ●
Digital Link Plus / Digital Link / Digital Link HD	● / ● / ●	● / ● / ●
Languages / menu	18 [2]	18 [2]
Radio reception	DVB radio	DVB radio
PIP (AV) / Full PIP [3] / iPIP	● / ● / ●	● / ● / ●
Splitscreen TV/TV, TV/video text	● / ●	● / ●
Connectors		
Euro AV (Scart)	2	2
S-VHS, Hi8 / RGB / Component Video Input-ready	2 / 1 / 1	2 / 1 / 1
HDMI with HDCP	2	2
USB-In	2	2
Digital Audio-In (Cinch) / Digital Audio-Out (Cinch)	1 / 1	1 / 1
Headphone (jack) in mm	3.5	3.5
Copy function Front-AV to Euro-AV / Euro-AV to Euro-AV	● / ●	● / ●
L-Link	●	●
VGA / RS 232 C / Motor control	● / ● / ●	● / ● / ●
Side AV Video-/S-VHS, Hi-8 ready	1 / 1	1 / 1
Component (YUV) In	●	●
Common Interface	2	2
Miscellaneous		
Power switch	●	●
Mains voltages	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
Power consumption in stand-by mode / when set turned off (in Watts)	1.2 / 0	1.2 / 0
Power consumption "ON" [4] (in Watts) / Energy consumption per year (in KWh)	180 / 276	165 / 254
VDE-safety standard (inspection seal)	●	●

Further technical details about Individual Compose can be found in the 2008 complete range catalogue on pages 52/53.

	40 Compose Full-HD+ 100 LCD-TV
	Full-HD 100Hz LCD technology
	101 / 16 : 9
	1,920 x 1,080
	100 Hz
	500
	1.200:1 / 6.000:1
	8
	178° / 178°
	●
	●
	●
	●
	● / —
	2 x 40
	○ / —
	● / ● / ● / ●
	● / ●
	●
	●
	● / ● / ● / ● / ●
	● / ●
	● / ●
	●
	● / ● / ●
	● / ●
	● / ●
	4,000
	● / ● / 2,000
	● / ●
	●
	● / 160
	● / ● / ●
	● / ● / —
	18 [2]
	DVB radio
	● / ● / ●
	● / ●
	2
	2 / 1 / 1
	2
	1
	1 / 1
	3.5
	● / ●
	●
	● / ● / ●
	1 / 1
	●
	2
	●
	220–240 V, 50 / 60 Hz
	1.8 / 0
	135 / 210
	●

● = included/installed ○ = upgradeable/optional ▫ = Variant ex works

[1] Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

[2] D-E-F-I-GB-NL-P-PL-CZ-DK-S-HU-FIN-SLN-TR-SK-RUS-GR

[3] Not with MPEG4.

[4] To EN 62087.

	Individual **46 Selection Full-HD+ 100 LCD-TV**	**40 Selection Full-HD+ 100 LCD-TV**
Image		
Display technology	Full-HD 100Hz LCD technology	Full-HD 100Hz LCD technology
Screen diagonal (in cm) / Picture format	117 / 16 : 9	101 / 16 : 9
Resolution (in pixels)	1,920 x 1,080	1,920 x 1,080
Picture frequency	100 Hz	100 Hz
Brightness (in cd / m²)	500	500
Contrast (static / dynamic)	2.000:1 / 10.000:1	1.200:1 / 6.000:1
Response time (in ms)	8	8
Viewing angle (horizontal / vertical)	178° / 178°	178° / 178°
24 p cinema film display	●	●
Fully digitised signal processing	●	●
Vertical image correction	●	●
Format options 16 : 9, 4 : 3, Panorama, Cine, Zoom	●	●
Audio		
Sound+ / CRX® sound system	● / ●	● / ●
Output in Watts (music)	2 x 40	2 x 40
Closed 2-way speakers / full range speakers	● / —	● / —
Dolby Digital [1] / dts / Virtual Dolby Surround [1] / Panorama	○ / ○ / ● / ●	● / ● / ● / ●
Two-channel / Controlled audio OUT (constantly selectable)	● / ●	● / ●
Television standards		
Multi-standard (analogue)	●	●
Integrated DVB-T	●	●
Colour standard: PAL / Secam / NTSC / NTSC-V / PAL-V (60 Hz)	● / ● / ● / ● / ●	● / ● / ● / ● / ●
Audio standard: Two-channel FM / AM, Nicam	● / ●	● / ●
Video Decoding System: MPEG2 / MPEG4	● / ●	● / ●
Audio Decoding System: MPEG	●	●
Operation		
Electronic Instruction Manual / Index / Context Related Help	● / ● / ●	● / ● / ●
Automatic Channel Programming (ACP) / Channel recognition	● / ●	● / ●
Automatic Volume Control (AVC) / Automatic Signal Switch (ASS)	● / ●	● / ●
Programme positions incl. AV and radio	4,000	4,000
Video text Level 2.5 / FLOF-Video text / Page memory	● / ● / 2,000	● / ● / 2,000
Personalised Video text with direct access to bookmarked pages	● / ●	● / ●
EPG incl. Digital Link Plus	●	●
DR+ / storage capacity in GB	□ / 160	● / 160
Parental Lock / Automatic turn-off / Timer	● / ● / ●	● / ● / ●
Digital Link Plus / Digital Link / Digital Link HD	● / ● / ●	● / ● / —
Languages / menu	18 [2]	18 [2]
Radio reception	DVB radio	DVB radio
PIP (AV) / Full PIP [3] / iPIP	● / □ / □	● / ● / ●
Splitscreen TV/TV, TV/video text	□ / ●	● / ●
Connectors		
Euro AV (Scart)	2	2
S-VHS, Hi8 / RGB / Component Video Input-ready	2 / 1 / 1	2 / 1 / 1
HDMI with HDCP	2	2
USB-In	2	1
Digital Audio-In (Cinch) / Digital Audio-Out (Cinch)	1 / 1	1 / 1
Headphone (jack) in mm	3.5	3.5
Copy function Front-AV to Euro-AV / Euro-AV to Euro-AV	● / ●	● / ●
L-Link	●	●
VGA / RS 232 C / Motor control	● / ● / ●	● / ● / ●
Side AV Video-/S-VHS, Hi-8 ready	1 / 1	1 / 1
Component (YUV) In	●	●
Common Interface	2	2
Miscellaneous		
Power switch	●	●
Mains voltages	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
Power consumption in stand-by mode / when set turned off (in Watts)	1.2 / 0	1.2 / 0
Power consumption "ON" [4] (in Watts) / Energy consumption per year (in KWh)	155 / 235	135 / 206
VDE-safety standard (inspection seal)	●	●

Further technical details about Individual Selection can be found in the 2008 complete range catalogue on pages 64/65.

	32 Selection HD+ 100 LCD-TV	26 Selection LCD-TV
	HD 100Hz LCD technology	HD LCD technology
	80 / 16 : 9	66 / 16 : 9
	1,366 x 768	1,366 x 768
	100 Hz	50 Hz
	500	500
	1.200:1 / 6.000:1	1.200:1 / —
	8	6
	178° / 178°	176° / 176°
	●	—
	●	●
	●	●
	●	●
	● / ●	● / ●
	2 x 40	2 x 20
	● / —	● / —
	○ / ○ / ● / ●	— / — / ● / ●
	● / ●	● / ●
	●	●
	●	—
	● / ● / ● / ● / ●	● / ● / ● / ● / ●
	● / ●	● / ●
	● / ●	● / —
	●	●
	● / ● / ●	● / ● / ●
	● / ●	● / ●
	● / ●	● / ●
	4,000	1,850
	● / ● / 2,000	● / ● / 2,000
	● / ●	● / ●
	●	●
	□ / 120	— / —
	● / ● / ●	● / ● / ●
	● / ● / ●	● / ● / —
	18 [2]	18 [2]
	DVB radio	DVB radio
	● / □ / □	● / — / —
	□ / ●	— / ●
	2	2
	2 / 1 / 1	2 / 1 / 1
	2	1
	2	—
	1 / 1	1 / 1
	3.5	3.5
	● / ●	● / ●
	●	●
	● / ● / ●	● / — / ●
	1 / 1	1 / 1
	●	●
	2	1
	●	●
	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
	1.2 / 0	2.4 / 0
	80 / 126	70 / 120
	●	●

● = included/installed ○ = upgradeable/optional □ = Variant ex works

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[2] D-E-F-I-GB-NL-P-PL-CZ-DK-S-HU-FIN-SLN-TR-SK-RUS-GR

[3] Not with MPEG4.

[4] To EN 62087.

	Connect 42 Media Full-HD+[5] LCD-TV	37 Media Full-HD+ LCD-TV
Image		
Display technology	Full-HD LCD technology	Full-HD LCD technology
Screen diagonal (in cm) / Picture format	106 / 16 : 9	94 / 16 : 9
Resolution (in pixels)	1,920 x 1,080	1,920 x 1,080
Picture frequency	50 Hz	50 Hz
Brightness (in cd / m²)	500	500
Contrast (static / dynamic)	1.300:1 / 6.500:1	1.000:1 / 5.000:1
Response time (in ms)	5	5
Viewing angle (horizontal / vertical)	178° / 178°	178° / 178°
24 p cinema film display	●	●
Fully digitised signal processing	●	●
Vertical image correction	●	●
Format options 16 : 9, 4 : 3, Panorama, Cine, Zoom	●	●
Audio		
Sound+ / CRX® sound system	● / —	● / —
Output in Watts (music)	2 x 20	2 x 20
Closed 2-way speakers / full range speakers	● / —	● / —
Dolby Digital [1] / dts / Virtual Dolby Surround [1] / Panorama	○ / ○ / ● / ●	○ / ○ / ● / ●
Two-channel / Controlled audio OUT (constantly selectable)	● / ●	● / ●
Television standards		
Multi-standard (analogue)	●	●
Integrated DVB-T	●	●
Colour standard: PAL / Secam / NTSC / NTSC-V / PAL-V (60 Hz)	● / ● / ● / ● / ●	● / ● / ● / ● / ●
Audio standard: Two-channel FM / AM, Nicam	● / ●	● / ●
Video Decoding System: MPEG2 / MPEG4	● / ●	● / ●
Audio Decoding System: MPEG	●	●
Operation		
Electronic Instruction Manual / Index / Context Related Help	● / ● / ●	● / ● / ●
Automatic Channel Programming (ACP) / Channel recognition	● / ●	● / ●
Automatic Volume Control (AVC) / Automatic Signal Switch (ASS)	● / ●	● / ●
Programme positions incl. AV and radio	4,000	4,000
Video text Level 2.5 / FLOF-Video text / Page memory	● / ● / 2,000	● / ● / 2,000
Personalised Video text with direct access to bookmarked pages	● / ●	● / ●
EPG incl. Digital Link Plus	●	●
DR+ / storage capacity in GB	□ / 160	□ / 160
Parental Lock / Automatic turn-off / Timer	● / ● / ●	● / ● / ●
Digital Link Plus / Digital Link / Digital Link HD	● / ● / ●	● / ● / ●
Languages / menu	18 [2]	18 [2]
Radio reception	DVB radio	DVB radio
PIP (AV) / Full PIP [3] / iPIP	● / □ / □	● / □ / □
Splitscreen TV/TV, TV/video text	□ / ●	□ / ●
Connectors		
Euro AV (Scart)	2	2
S-VHS, Hi8 / RGB / Component Video Input-ready	2 / 1 / 1	2 / 1 / 1
HDMI with HDCP	2	2
USB-In	2	2
Digital Audio-In (Cinch) / Digital Audio-Out (Cinch)	1 / 1	1 / 1
Headphone (jack) in mm	3.5	3.5
Copy function Front-AV to Euro-AV / Euro-AV to Euro-AV	● / ●	● / ●
L-Link	●	●
VGA / RS 232 C / Motor control	● / ○ / ○	● / ○ / ○
Side AV Video-/S-VHS, Hi-8 ready	1 / 1	1 / 1
Component (YUV) In	1	1
Common Interface	1	1
Miscellaneous		
Power switch	●	●
Mains voltages	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
Power consumption in stand-by mode / when set turned off (in Watts)	1.2 / 0	1.2 / 0
Power consumption "ON" [4] (in Watts) / Energy consumption per year (in KWh)	120 / 184	100 / 155
VDE-safety standard (inspection seal)	●	●

Further technical details about Connect can be found in the 2008 complete range catalogue on pages 78/79.

	32 Media Full-HD+[5] LCD-TV
	Full-HD LCD technology
	80/16 : 9
	1,920 x 1,080
	50 Hz
	500
	3.000:1 / 15.000:1
	8
	178° / 178°
	●
	●
	●
	●
	● / —
	2 x 20
	● / —
	○ / ○ / ● / ●
	● / ●
	●
	●
	● / ● / ● / ● / ●
	● / ●
	● / ●
	●
	● / ● / ●
	● / ●
	● / ●
	4,000
	● / ● / 2,000
	● / ●
	●
	□ / 160
	● / ● / ●
	● / ● / ●
	18[2]
	DVB radio
	● / □ / □
	□ / ●
	2
	2 / 1 / 1
	2
	2
	1 / 1
	3.5
	● / ●
	●
	● / ○ / ○
	1 / 1
	1
	1
	●
	220–240 V, 50 / 60 Hz
	1.2 / 0
	85 / 133
	●

● = included/installed ○ = upgradeable/optional □ = Variant ex works

[1] Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

[2] D-E-F-I-GB-NL-P-PL-CZ-DK-S-HU-FIN-SLN-TR-SK-RUS-GR

[3] Not with MPEG4.

[4] To EN 62087.

[5] Expected to be available from May 2008.

	Xelos **A 42 HD+ 100** **LCD-TV**	**A 37 HD+ 100** **LCD-TV**
Image		
Display technology	HD 100Hz LCD technology	HD 100Hz LCD technology
Screen diagonal (in cm) / Picture format	106 / 16 : 9	94 / 16 : 9
Resolution (in pixels)	1,366 x 768	1,366 x 768
Picture frequency	100 Hz	100 Hz
Brightness (in cd / m²)	500	500
Contrast (static / dynamic)	1.000:1 / 5.000:1	1.200:1 / 6.000:1
Response time (in ms)	8	8
Viewing angle (horizontal / vertical)	178° / 178°	178° / 178°
24 p cinema film display	●	●
Fully digitised signal processing	●	●
Vertical image correction	●	●
Format options 16 : 9, 4 : 3, Panorama, Cine, Zoom	●	●
Audio		
Sound+ / CRX® sound system	● / ●	● / ●
Output in Watts (music)	2 x 20	2 x 20
Closed 2-way speakers / full range speakers	● / —	● / —
Dolby Digital [1] / dts / Virtual Dolby Surround [1] / Panorama	○ / ○ / ● / ●	○ / ○ / ● / ●
Two-channel / Controlled audio OUT (constantly selectable)	● / ●	● / ●
Television standards		
Multi-standard (analogue)	●	●
Integrated DVB-T	●	●
Colour standard: PAL / Secam / NTSC / NTSC-V / PAL-V (60 Hz)	● / ● / ● / ● / ●	● / ● / ● / ● / ●
Audio standard: Two-channel FM / AM, Nicam	● / ●	● / ●
Video Decoding System: MPEG2 / MPEG4	● / ●	● / ●
Audio Decoding System: MPEG	●	●
Operation		
Electronic Instruction Manual / Index / Context Related Help	● / ● / ●	● / ● / ●
Automatic Channel Programming (ACP) / Channel recognition	● / ●	● / ●
Automatic Volume Control (AVC) / Automatic Signal Switch (ASS)	● / ●	● / ●
Programme positions incl. AV and radio	4,000	4,000
Video text Level 2.5 / FLOF-Video text / Page memory	● / ● / 2,000	● / ● / 2,000
Personalised Video text with direct access to bookmarked pages	● / ●	● / ●
EPG incl. Digital Link Plus	●	●
DR+ / storage capacity in GB	□ / 160	□ / 160
Parental Lock / Automatic turn-off / Timer	● / ● / ●	● / ● / ●
Digital Link Plus / Digital Link / Digital Link HD	● / ● / ●	● / ● / ●
Languages / menu	18 [2]	18 [2]
Radio reception	DVB radio	DVB radio
PIP (AV) / Full PIP [4] / iPIP	● / □ / □	● / □ / □
Splitscreen TV/TV, TV/video text	□ / ●	□ / ●
Connectors		
Euro AV (Scart)	2	2
S-VHS, Hi8 / RGB / Component Video Input-ready	2 / 1 / 1	2 / 1 / 1
HDMI with HDCP	2	2
USB-In	1	1
Digital Audio-In (Cinch) / Digital Audio-Out (Cinch)	1 / 1	1 / 1
Headphone (jack) in mm	3.5	3.5
Copy function Front-AV to Euro-AV / Euro-AV to Euro-AV	● / ●	● / ●
L-Link	●	●
VGA / RS 232 C / Motor control	● / ○ / ○	● / ○ / ○
Side AV Video-/S-VHS, Hi-8 ready	1 / 1	1 / 1
Component (YUV) In	●	●
Common Interface	1	1
Miscellaneous		
Power switch	●	●
Mains voltages	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
Power consumption in stand-by mode / when set turned off (in Watts)	1.2 / 0	1.2 / 0
Power consumption "ON" [5] (in Watts) / Energy consumption per year (in KWh)	115 / 177	95 / 162
VDE-safety standard (inspection seal)	●	●

Further technical details about Xelos can be found in the 2008 complete range catalogue on pages 90/91.

	A 32 HD+ 100 LCD-TV	A 26 LCD-TV	A 20 DVB-T LCD-TV
	HD 100Hz LCD technology	HD LCD technology	Active matrix LCD technology
	80 / 16 : 9	66 / 16 : 9	51 / 4 : 3
	1,366 x 768	1,366 x 768	640 x 480
	100 Hz	50 Hz	50 Hz
	500	500	450
	1.200:1 / 6.000:1	1.200:1 / —	500:1 / —
	8	8	13
	178° / 178°	176° / 176°	176° / 176°
	●	—	—
	●	●	●
	●	●	—
	●	●	● (no panorama)
	● / ●	● / —	— / —
	2 x 20	2 x 20	2 x 3
	● / —	● / —	— / ●
	○ / ○ / ● / ●	— / — / ● / ●	— / — / ● / ●
	● / ●	● / ●	● / ●
	●	●	●
	●	—	—
	● / ● / ● / ● / ●	● / ● / ● / ● / ●	● / ● / — / — / —
	● / ●	● / ●	● / ●
	● / ●	● / —	● / —
	●	●	—
	● / ● / ●	● / ● / ●	— / ● / ●
	● / ●	● / ●	● / ●
	● / ●	● / ●	— / ●
	4,000	1,850	200
	● / ● / 2,000	● / ● / 2,000	— / ● / 252
	● / ●	● / ●	— / —
	●	●	—
	□ / 160	— / —	— / —
	● / ● / ●	● / ● / ●	● / ● / ●
	● / ● / ●	● / ● / —	— / ● / —
	18 [2]	18 [2]	10 [3]
	DVB radio	DVB radio	FM radio / DVB radio
	● / □ / □	● / — / —	— / — / —
	□ / ●	— / ●	— / —
	2	2	1
	2 / 1 / 1	2 / 1 / 1	— / 1 / —
	2	1	—
	1	—	—
	1 / 1	1 / 1	— / —
	3.5	3.5	3.5
	● / ●	● / ●	● / —
	●	●	—
	● / ○ / ○	● / — / —	— / — / —
	1 / 1	1 / 1	1 / —
	●	●	—
	1	1	—
	●	●	●
	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
	1.2 / 0	2.4 / 0	2.6 / 0
	80 / 126	70 / 120	55 / 100
	●	●	●

● = included/installed ○ = upgradeable/optional □ = Variant ex works

[1] Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.

[2] D-E-F-I-GB-NL-P-PL-CZ-DK-S-HU-FIN-SLN-TR-SK-RUS-GR

[3] D-E-F-I-GB-NL-P-TR-GR-RUS

[4] Not with MPEG4.

[5] To EN 62087.

	Modus L 42 LCD-TV	L 32 LCD-TV
Image		
Display technology	HD LCD technology	HD LCD technology
Screen diagonal (in cm) / Picture format	106 / 16 : 9	80 / 16 : 9
Resolution (in pixels)	1,366 x 768	1,366 x 768
Picture frequency	50 Hz	50 Hz
Brightness (in cd / m²)	500	500
Contrast (static / dynamic)	1.000:1 / —	1.200:1 / —
Response time (in ms)	8	8
Viewing angle (horizontal / vertical)	178° / 178°	178° / 178°
24 p cinema film display	—	—
Fully digitised signal processing	●	●
Vertical image correction	●	●
Format options 16 : 9, 4 : 3, Panorama, Cine, Zoom	●	●
Audio		
Sound+ / CRX® sound system	● / —	● / ●
Output in Watts (music)	2 x 15	2 x 15
Closed 2-way speakers / full range speakers	— / ●	— / ●
Dolby Digital [1] / dts / Virtual Dolby Surround [1] / Panorama	— / — / ● / ●	— / — / ● / ●
Two-channel / Controlled audio OUT (constantly selectable)	● / ●	● / ●
Television standards		
Multi-standard (analogue)	●	●
Integrated DVB-T	—	—
Colour standard: PAL / Secam / NTSC / NTSC-V / PAL-V (60 Hz)	● / ● / ● / ● / ●	● / ● / ● / ● / ●
Audio standard: Two-channel FM / AM, Nicam	● / ●	● / ●
Video Decoding System: MPEG2 / MPEG4	● / —	● / —
Audio Decoding System: MPEG	●	●
Operation		
Electronic Instruction Manual / Index / Context Related Help	● / ● / ●	● / ● / ●
Automatic Channel Programming (ACP) / Channel recognition	● / ●	● / ●
Automatic Volume Control (AVC) / Automatic Signal Switch (ASS)	● / ●	● / ●
Programme positions incl. AV and radio	1,850	1,850
Video text Level 2.5 / FLOF-Video text / Page memory	● / ● / 2,000	● / ● / 2,000
Personalised Video text with direct access to bookmarked pages	● / ●	● / ●
EPG incl. Digital Link Plus	●	●
DR+ / storage capacity in GB	— / —	— / —
Parental Lock / Automatic turn-off / Timer	● / ● / ●	● / ● / ●
Digital Link Plus / Digital Link / Digital Link HD	● / ● / —	● / ● / —
Languages / menu	18 [2]	18 [2]
Radio reception	DVB radio	DVB radio
PIP (AV) / Full PIP [3] / iPIP	● / — / —	● / — / —
Splitscreen TV/TV, TV/video text	— / ●	— / ●
Connectors		
Euro AV (Scart)	2	2
S-VHS, Hi8 / RGB / Component Video Input-ready	2 / 1 / 1	2 / 1 / 1
HDMI with HDCP	1	1
USB-In	—	—
Digital Audio-In (Cinch) / Digital Audio-Out (Cinch)	1 / 1	1 / 1
Headphone (jack) in mm	3.5	3.5
Copy function Front-AV to Euro-AV / Euro-AV to Euro-AV	● / ●	● / ●
L-Link	●	●
VGA / RS 232 C / Motor control	● / — / —	● / — / —
Side AV Video-/S-VHS, Hi-8 ready	1 / 1	1 / 1
Component (YUV) In	●	●
Common Interface	1	1
Miscellaneous		
Power switch	●	●
Mains voltages	220–240 V, 50 / 60 Hz	220–240 V, 50 / 60 Hz
Power consumption in stand-by mode / when set turned off (in Watts)	2.4 / 0	2.4 / 0
Power consumption "ON" [4] (in Watts) / Energy consumption per year (in KWh)	120 / 193	85 / 141
VDE-safety standard (inspection seal)	●	●

Further technical details about Modus can be found in the 2008 complete range catalogue on pages 96/97.

Function upgrade TV

Available as variant ex works for:
Individual 46 Selection Full-HD+ 100, Individual 32 Selection HD+ 100,
Connect 42 Media Full-HD+, Connect 37 Media Full-HD+,
Connect 32 Media Full-HD+, Xelos A 42 HD+ 100, Xelos A 37 HD+ 100,
Xelos A 32 HD+ 100

	DR+
General	
Hard Disk	80 GB, 120 GB[6], 160 GB[6]
Recording capacity for standard definition	up to 100 hours, up to 200 hours[7]
Timeshift-Buffer	30 / 60 / 90 / 120 min.
Picture	
Still frame / no interference pattern	● / ●
Slow motion: 0.1/0.2/0.5/0.8 times	●
10/60/120x search; forwards/backwards	● / ●[7]
Smartjump, Replay	●
Time Shift mode	●
Archive playback	●
Recording options	
Time Shift buffer	●
Archive recording	●
Spontaneous recording	●
EPG programmed recording	●
Teletext-programmed recording	●
From external device (analogue only)	●
Serial recording Monday–Friday, daily / weekly	●
	● / ● / ●
Archive management	
Automatic titling and info when recording using EPG	●
Automatic titling and info when recording using VT	●
Automatic titling and info when recording spontaneously	●
Title edit	●
Sorting according to date / alphabetical order	● / ●
Erase protection	●
Parental Lock	●
Other functions	
Highlight Function	●
Replay Function	●
Skip Function	●
Realtime counter	●
Time remaining indicator	●
Cut function	●
Bookmark function	●
Timeshift recording zap/fix	●
Timer slots	50
Simultaneous recording and playback	●
Sources	
Terrestrial/cable (analogue)	●
DVB-S (on Digital+ platform)	○
DVB-S 2 (on Digital+ HD-platform)	○
DVB-T	●
DVB-C	●

● = included/installed ○ = upgradeable/optional □ = Variant ex works
[1] Dolby is a registered trademark of Dolby Laboratories Licensing Corporation.
[2] D-E-F-I-GB-NL-P-PL-CZ-DK-S-HU-FIN-SLN-TR-SK-RUS-GR
[3] Not with MPEG4.
[4] To EN 62087.

● = included/installed ○ = upgradeable/optional
[6] Only in conjunction with Digital+ HD platform.
[7] Backwards search not available with HDTV recordings.

Individual Sound

	Individual Sound Column speaker	Individual Sound Satellite speaker	Individual Sound Subwoofer
General			
Principle	3-way bass reflex (d´Appolito configuration)	1-way closed	1-way bass reflex, active
Nominal/music power handling (sine/max.)	75 W / 120 W	30 W / 45 W	–
Nominal/music power (sine/max.)	–	–	100 W / 170 W
Frequency range	65 Hz–22 kHz (-6 dB)	160 Hz–20 kHz (-6 dB)	32 Hz–250 Hz (-6 dB)
Impedance	4–8 ohms	8 ohms	–
Features			
Power amps	–	–	5 digital power amps (class D) for satellites: 50 watts, 6 ohms each
Bass control –12 dB / +6 dB	–	–	●
Phase switch	–	–	●
Sub-sonic filter	–	–	50 Hz–250 Hz
Power switch	–	–	●
Audio Link	–	–	●
Speaker complement	2 woofers	–	1 woofer
	2 full-range speakers	2 full-range speakers	–
	1 tweeter	–	–
Connectors	Gold-plated terminal screws	Speaker terminals (max. 1.5 mm)	5x speaker terminals (max. 1.5 mm)
Phono connectors	–	–	Gold-plated
Accessories			
Standard inset	Aluminium Silver[1]	Aluminium Silver[1]	–
Dimensions (W x D) in cm	8.3 x 8.3	5.5 x 5.5	
Speaker cables (set of 2: 6 m, 1.5 mm²)	●	–	–
Speaker cables (set of 2: 6 m, 0.5 mm²)	–	●	–
Speaker cables (set of 2: 15 m, 0.5 mm²)	–	●	–
Audio cinch cable (6 m)	–	–	●
Electronics cover	–	–	●
Loudspeaker grille	●	●	●
The following applies when using the Satellite Center speaker I Compose:			
Wall mount	–	●	–
Speaker cables (set of 1: 6 m)	–	●	–
Speaker cables (set of 1: 15 m)	–	●	–
Accessories (optional)			
Insets	○	–	–
Colour options	Ebony, Rosewood, Light Oak, Metallised Chrome, Aluminium Silver, High Gloss Black, Ruby, Orange, Apple Green	–	–
Individual Sound S-Stand (2 per set)	–	○	–
Dimensions			
Baseplate diameter in cm		20.1	
Hight of pole in cm		88.6	
Available colours		Aluminium	
Individual Sound Wall mount (2 per set)	–	○	–
Available colours		Anthracite, Platinum	
Floor Stand Subwoofer			○
Dimensions			
Diameter of floor plate in cm			42.0
Overall height with subwoofer			36.0
Colour			Brushed Aluminium, Chrome
Cube i	–	–	○
Dimensions (height x width x depth in cm)			52.5 x 45.4 x 40.5
Available colours			Platinum
Miscellaneous			
Column speaker (Ø baseplate diameter x height x depth in cm)	26.0 x 110.0 x 8.3		
Satellite speaker			
on S-Stand (Ø baseplate diameter x height x depth in cm)		20.1 x 101.5 x 6.2	
Wall solution (height x width x depth in cm)		15.0 x 6.2 x 6.2	
Subwoofer (height x width x depth in cm)			
horizontal set-up solution			25.3 x 43.0 x 35.5
vertical set-up solution			43.0 x 21.0 x 34.3
Available colours of enclosure	Aluminium Silver, Aluminium Black, Aluminium Bronze, Aluminium Titanium, High Gloss Cream, Chrome	Aluminium Silver, Aluminium Black, Aluminium Bronze, Aluminium Titanium, High Gloss Cream	Anthracite, Chrome Silver

● = included/installed ○ = upgradeable/optional

[1] If enclosure is High Gloss Cream: Metallised Chrome.

Individual Compose

	Center Floor Stand I Compose	Center speaker I Compose	Stereo speaker I 46 Compose	Stereo speaker I 40 Compose
General				
Principle	3-way, passive	3-way bass reflex (d´Appolito grouping)	2-way CRX® system	2-way CRX® system
Nominal/music power handling (sine/max.)	50 W / 80 W	75 W / 120 W	30 W / 50 W	30 W / 50 W
Frequency range	110 Hz–22 kHz (-6 dB)	75 Hz–22 kHz (-6 dB)	90 Hz–22 kHz (-6 dB)	100 Hz–22 kHz (-6 dB)
Impedance	4–8 ohms	4–8 ohms	4–8 ohms	4–8 ohms
Features				
Speaker complement	1 mid-tone speaker	2 woofers	1 bass-midrange speaker	1 bass-midrange speaker
	1 woofer	2 full-range speakers	1 tweeter	1 tweeter
	1 tweeter	1 tweeter		
Connectors	Gold-plated terminal screws	Gold-plated terminal screws	Gold-plated terminal screws	Gold-plated terminal screws
Accessories				
Wall mount	–	●	●	●
Standard inset	–	High Gloss Black	High Gloss Black	High Gloss Black
Dimensions (W x D) in cm	–	8.3 x 8.3	4.4 x 66.4	4.4 x 58.9
Speaker cables (1x 6 m, 1.5 mm²)	●	●	–	–
Speaker cables (2x 0.3 m, 0.5 mm²)	–	–	●	●
Speaker cables (2x 6 m, 1.5 mm²)	–	–	●	●
Accessories (optional)				
Insets	–	○	○	○
Colour options	–	Ebony, Rosewood, Light Oak, Metallised Chrome, Aluminium Silver, High Gloss Black, Ruby	Aluminium Silver	Aluminium Silver
Table Stand Center speaker I Compose	–	○	–	–
Dimensions				
Baseplate diameter in cm	–	26.0	–	–
Overall height in cm	–	11.0	–	–
Available colours	–	Brushed Aluminium	–	–
Miscellaneous				
Available colours of enclosure	Aluminium Black, Aluminium Silver, Chrome	Aluminium Black, Aluminium Silver	Aluminium Black, Aluminium Silver	Aluminium Black, Aluminium Silver
Manual rotation	●	–	–	–
Diameter of floor plate	50.0	–	–	–
Center speaker with Wall Mount (Width x Height x Depth in cm)	–	82.2 x 9.0 x 10.3	–	–
Stereo speaker with Wall Mount (Width x Height x Depth in cm)	–	–	9.2 x 67.2 x 6.8	9.2 x 59.7 x 6.8

Wireless Rear I Sound

	Wireless Rear
General	
Digital wireless link	●
Transmission/reception frequency	2.4 GHz
Frequency response	20 Hz–20 kHz (-3 dB)
Range	20 m indoors / 60 m outdoors
Frequency change	automatic
Signal-to-noise ratio	≥ 90 dB
Channel separation (1 kHz)	≥ 90 dB
Transmitter	
Power consumption in stand-by mode / when switched on	approx. 0.1 W / approx. 3 W
Receiver/Amplifier	
Power consumption in stand-by mode / when switched on	approx. 1 W / approx. 30 W
Nominal power (audio amp)	2 x 48 W
Connectors on transmitter	
Analogue Audio In	2 (3.5 mm connector)
Digital Audio In	2 (1 system connector)
Connectors on receiver/amplifier	
Loudspeaker outputs	2 gold-plated terminal screws
Accessories	
Plug-in power supply for transmitter	●
Table stand for receiver	●
Wall mount for receiver	●
Miscellaneous	
Dimensions of transmitter (height x width x depth in cm)	15.5 x 5.6 x 2.8
Dimensions of receiver (height x width x depth in cm)	33.0 x 18.1 x 5.3
Weight (approx.) in kg	Transmitter: 0.1 kg Receiver: 1.3 kg
Available colours	Chrome Silver

Individual Sound Projector

	Sound Projector
General	
Principle	active
Output power	120 W
Power consumption in stand-by mode	0.1 W
Features	
Selectable night mode / Auto Setup / sound modes	● / ● / ●
Speaker complement	2 woofers with 2 x 20 W amplifier
	40 beam loudspeaker with 40 x 2 W amplifier
	Dynamic bass boost
	Decoder for Dolby Digital, Dolby ProLogic II, dts, dts Neo 6
Connectors	Loewe Link system
	Digital Audio In (optical)
	Digital Audio In (cinch)
	Analogue Audio In (cinch)
	Component Video In (cinch)
	Subwoofer out (Audio Link)
	Composite Video Out (cinch)
	Component Video Out (cinch)
	Microphone input
Accessories	
Wall mount	●
Standard inset	Black
Auto Setup microphone and microphone stand	●
System cable (RS 232)	●
Video cinch cable / Audio cinch cable (analogue/digital)	● / ●
Cinch-Scart / TOS-Link cable adapter	● / ●
Accessories (optional)	
Table Stand Individual Sound Projector	●
Floor Stand 5 MU SP	●
Subwoofer I Sound	●
Miscellaneous	
Dimensions (height x width x depth in cm)	101.5 x 20.0 x 11.8
Weight (approx.) in kg	11.8
Available colours	High Gloss Black, Chrome Silver

● = included/installed ○ = upgradeable/optional

Peripherals

	BluTech Vision Blu-ray player	Viewvision DR+ DVB-T DVD recorder	Viewvision DR+ DVD recorder	Viewvision DVD recorder
General				
Recording formats	—	DVD+R/RW, DVD-R/RW	DVD+R/RW, DVD-R/RW	DVD+R/RW, DVD-R/RW
Playback formats	Blu-ray Disks: BD-ROM / R / RE, DVD-Video, DVD+/-R/RW (finalised), Audio-CD, CD-R/RW (finalised)	DVD, DVD+R/RW[1], DVD-R/RW[1], VCD 2.0, SVCD, DivX, Audio-CD, CD-R, CD-RW, MP3, WMA, JPEG, Kodak Picture CD (JPEG)	DVD, DVD+R/RW[1], DVD-R/RW[1], VCD 2.0, SVCD, DivX, Audio-CD, CD-R, CD-RW, MP3, WMA, JPEG, Kodak Picture CD (JPEG)	DVD, DVD+R/RW[1], DVD-R/RW[1], VCD 2.0, SVCD, DivX, Audio-CD, CD-R, CD-RW, MP3, WMA, JPEG, Kodak Picture CD (JPEG)
Mains voltage	230 V, 50 / 60 Hz	230 V, 50 / 60 Hz	230 V, 50 / 60 Hz	230 V, 50 / 60 Hz
Power consumption (switched on)	approx. 28 W	approx. 35 W	approx. 35 W	approx. 35 W
Power consumption in standby mode[2]	< 1 W	< 1 W	approx. 1 W	< 1 W
Recommended room temperature (min./max.)	+5° to +35°	+5° to +40°	+5° to +40°	+5° to +40°
Picture				
Colour standard	HD / PAL	PAL / NTSC	PAL / NTSC	PAL / NTSC
Screen format	16 : 9, Letterbox 4 : 3, Pan & Scan 4 : 3	16 : 9, Letterbox 4 : 3, Pan & Scan 4 : 3	16 : 9, Letterbox 4 : 3, Pan & Scan 4 : 3	16 : 9, Letterbox 4 : 3, Pan & Scan 4 : 3
24 p cinema film display	●	—	—	—
Digital image processing	12 bit	10 bit	10 bit	10 bit
Receive				
TV standard	—	PAL	PAL	PAL
Video Automatic Channel Programming	—	●	●	●
Memory stations	—	88 analogue / 165 digital	88	88
Sound				
dts[3] digital out / Dolby Digital[4] digital out	● / ●	● / ●	● / ●	● / ●
MPEG1 / MPEG2 digital out	●	●	●	●
PCM digital out	●	●	●	●
dts HD / Dolby Digital Plus / Dolby True HD digital out	● / ● / ●	— / — / —	— / — / —	— / — / —
MP3 playback	—	●	●	●
Digital audio signal processing	24 bit	24 bit	24 bit	24 bit
Signal to noise ratio	min. 100 dB (DVD/BD)	min. 100 dB (CD/DVD)	min. 100 dB (CD/DVD)	min. 100 dB (CD/DVD)
Dynamic range (1 kHz)	min. 100 dB (DVD/BD)	min. 95 dB (CD/DVD)	min. 95 dB (CD/DVD)	min. 95 dB (CD/DVD)
Channel separation (1 kHz)	min. 80 dB (DVD/BD)	min. 90 dB (CD/DVD)	min. 90 dB (CD/DVD)	min. 90 dB (CD/DVD)
Other functions				
Time shift	—	●	●	—
Angle of vision (camera position)[5]	●	●	●	●
Foreign languages / subtitle playback[5]	● / ●	● / ●	● / ●	● / ●
Copy to card / Copy to disc / Copy to DR+	— / — / —	— / — / ●	● / ● / ●	— / — / —
High speed dubbing (from DR+ Viewvision to DVD)	—	●	●	—
Slideshow for JPEG files / Audio Photo Album	— / —	● / ●	● / —	● / —
Edit function	—	●	●	●
Play-/Chapter list	—	●	●	●
Resume	●	●	●	●
Parental Lock / Delete protection	● / —	● / ●	● / ●	● / ●
Clock automatic	—	●	●	●
On Screen Display (OSD) in foreign languages	D-GB-I-F-E-NL-PORT-SWE	D-GB-I-F-E-NL-SWE	D-GB-I-F-E-NL	D-GB-I-F-E-NL-SWE
Replay functions				
Sequence/Title jump	●	●	●	●
Repeat	Chapter, title, A–B	Chapter, title, A–B	Chapter, title, A–B	Chapter, title, A–B
Still frame viewing / Single frame viewing	● / ●	● / ●	● / ●	● / ●
Digital Zoom function	●	●	●	●
Variable slow motion / Variable fast motion	● / ●	● / ●	● / ●	● / ●
Features				
Audio/Photo CardReader	—	—	(SD-/MMC-Card, Memory-Stick, MS-Pro, CF, MD) for JPEG and MP3-Files	—
Digital Link / Digital Link Plus / Digital Link HD	— / — / ●	● / ● / —	● / ● / —	● / ● / —
Show-View-Programming	—	●	●	●
Video Programming System (VPS)	—	●	●	●
Recording time on DVD (in four quality steps)	—	up to 5 hours	up to 5 hours	up to 5 hours
Recording time on DR+	—	up to 350 hours	up to 220 hours	—
Recordings/Days	—	16/30	16/30	16/30
Connections				
HDMI out	● (1080 p, 24 Hz)	● (1080 i)	● (1080 i)	● (1080 i)
USB input (on front)	—	●	—	●
Audio 5.1 analogue out	●	—	—	—
Euro AV/Scart	—	2	2	2
Component Video out (Pro Scan)	Gold-plated	Nickel-plated	Nickel-plated	Nickel-plated
CVBS-Video Phono out/in	Gold-plated / —	— / —	Nickel-plated	— / —
Audio-Stereo out/in	Gold-plated / —	Nickel-plated / —	— / —	Nickel-plated / —
Digital coaxial output / Digital optical output	Gold-plated / ●	Nickel-plated / ●	Nickel-plated / ●	Nickel-plated / ●
DV in (front)	—	●	●	●
Phono front AV terminal	—	●	●	●
S-Video out / S-Video in (front)	Gold-plated / —	Nickel-plated / —	Nickel-plated / —	Nickel-plated / —
Delivery/Accessories				
Mains cord, Scart cable, Antenna cable	● / — / —	● / ● / ●	● / ● / ●	● / ● / ●
Audio phono cable / Video phono cable / HDMI cable / DVD-RW	● / ● / ● / —	— / — / ● / ●	● / ● / ● / ●	— / — / ● / ●
System remote control	●	●	●	●
Miscellaneous				
Dimensions width x height x depth in cm	43.0 x 6.7 x 34.0	43.0 x 6.0 x 27.9	43.0 x 7.5 x 32.5	43.0 x 6.0 x 27.9
Weight (approx.) in kg	4.7	3.7	5.0	3.1
Available colours	Anthracite, Chrome Silver	Anthracite, Chrome Silver	Anthracite, Platinum	Anthracite, Chrome Silver

● = included/installed ○ = upgradeable/optional

[1] Playback capability of CD-R/RWs (MP3, JPEG, VCD, SVCD) and DVD+Rs, DVD-Rs (video mode) as well as DVD+/-RWs is influenced by the recording devices, recording methods and data carriers used. Difficulties may be encountered during playback if standards are not adhered to.

[2] In energy-saving mode.

[3] dts is a registered trademark of Digital Theatre Systems, Inc.

[4] Dolby is a registered trademark of the Dolby Laboratories Licensing Corporation.

[5] Depends on DVD software.

Audio

	Auro 2216 PS Audio system
General	
Disc formats	DVD-Video, DVD-Audio, DVD+R/RW[1], DVD-R/RW[1] (Video Mode), VCD, SVCD, CD, CD-R/RW, JPEG, MP3, Kodak Picture CD (JPEG)
Mains voltage	175–220 V, 50/60 Hz
Power consumption	< 15 W
Power consumption in standby mode	max. 3 W
Picture	
Colour standard	PAL / NTSC
Screen format	16 : 9, Letterbox 4 : 3, Pan & Scan 4 : 3
Digital picture processing	12 bit
Sound	
dts	●
Dolby Digital	●
Dolby Pro Logic	●
Dolby Pro Logic II	●
MPEG1 / MPEG2	● / ●
PCM	●
MP3 playback	●
Digital audio signal processing	24 bit
Signal to noise ratio	min. 100 dB
Dynamic range (1 kHz)	min. 95 dB
Channel separation (1 kHz)	min. 90 dB
Tuner	
Tuning range (FM)	87,5 MHz–108 MHz
Channel memory for FM / AM	36 / 24
Manual channel search	●
Automatic channel search	●
Manual channel storage	●
Automatic channel storage	●
Other functions	
Angle of vision (camera position)	●
Foreign languages / subtiles replay	● / ●
Custome File (Audio CDs)	●
CD text	●
Resume	●
Parental Lock	●
On Screen Display (OSD) in foreign languages	D-GB-I-F-E-NL
Replay functions	
Sequence/Title jump	●
Repeat	Chapter, title, A–B
Still frame	●
Single image increments	●
Random (Audio CD)	●
Digital Zoom function	x 4, x 16
Variable slow motion (DVD video)	Backwards 1/2, 1/4, 1/8, 1/16 Forwards 1/2, 1/4, 1/8, 1/16
Variable fast motion (DVD video)	Backwards 2, 4, 16, 100 Forwards 2, 4, 16, 100
Features	
Loewe PCS	●
Help function	●
Dual Laser	●
Integrated Dolby Digital-/MPEG-2-/dts-Decoder	●
L-Link	●
Digital Link	●
Screen saver	●
Reception	
Euro AV	●
Pre-out (5.1 channel output)	Gold-plated
AUX 1 (analogue In/Out)	Gold-plated
AUX 2 (digital In/Out)	Gold-plated
9-pin plug	●
L-Link TV	●
L-Link EXT	●
FM antenna	●
AM antenna	●
Component Out	Gold-plated
Upgrades/Accessories	
Scart-cable (1.5 m)	●
L-Link cable (1.5 m)	●
Antenna connection cable (1.2 m)	●
AM room antenna (1.5 m)	●
9-pin plug cable (6 m)	●
System remote control	●
Miscellaneous	
Dimensions width x height x depth in cm	43.0 x 7.5 x 32.5
Weight (approx.) in kg	5.0
Available colours	Anthracite, Platinum

● = included/installed ○ = upgradeable/optional

[1] Playback capability of CD-R/RWs (MP3, JPEG, VCD, SVCD) and DVD+Rs, DVD-Rs (video mode) as well as DVD+/-RWs is influenced by the recording devices, recording methods and data carriers used. Difficulties may be encountered during playback if standards are not adhered to.

Accessories

Cube i

Cube i
Colour: Platinum
Dimensions (W x H x D) in cm: 45.4 x 52.5 x 40.5

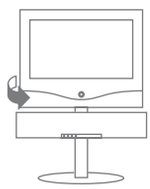
Accessories TV Reference

Spheros

Cube 2[1] for Spheros R 37 Full-HD+, Spheros R 32 HD+ 100
Motorised rotation, TV tilting,
remote controllable
4 video compartments
Colours: Platinum, High Gloss Basalt
Dimensions (W x H x D) in cm:
105.0 x 45.0 x 49.0

Cube Adapter for Spheros R 37 Full-HD+, Spheros R 32 HD+ 100
Adapter for installation on Cube rack systems.
Colours: Platinum, High Gloss Basalt

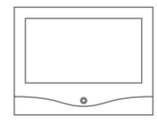
CD/DVD-Board
For integration in Cube 2.
Holds up to 24 CDs or 16 DVDs.



Floor Stand 5 MU SP[1] for Spheros R 37 Full-HD+
Only in combination with Individual Sound Projector.
Motorised rotation, TV tilting,
remote controllable
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 56.0
Total height incl. TV: 116.8

Floor Stand 4 MU for Spheros R 37 Full-HD+, Spheros R 32 HD+ 100
Motorised rotation, TV tilting
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 50.0
Height of pole: (visible)[2]: approx. 41.0

Floor Stand 4 for Spheros R 37 Full-HD+, Spheros R 32 HD+ 100
Manual rotation, TV tilting
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 50.0
Height of pole: (visible)[2]: approx. 41.0



Screen Wall Mount 2[1] for Spheros R 37 Full-HD+
TV rotates, tilts and swivels
Colour: Silver

Screen Wall Mount 1[1] for Spheros R 32 HD+ 100
TV rotates, tilts and swivels
Colour: Silver

Wall mount WM 50 for Spheros R 37 Full-HD+, Spheros R 32 HD+ 100
TV tilting
Colour: Chrome Silver

[1] Only in conjunction with a corresponding adapter, to be ordered separately.
[2] Visible height depends on TV set.

Accessories TV Individual

Individual

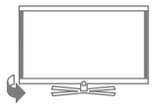


Table Stand I 52 Compose for Individual 52 Compose
Manual rotation
Colour: Chrome coating
Dimensions (W x D) in cm: 64.6 x 38.5

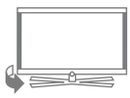
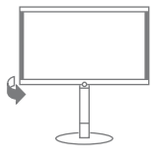
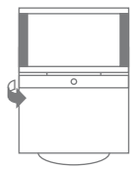


Table Stand I 40 – 46 Compose for Individual 46 Compose, Individual 40 Compose
Manual rotation
Colour: Chrome coating
Dimensions (W x D) in cm: 64.4 x 38.5



Center Floor Stand I Compose for Individual Compose
Manual rotation
Colours: Aluminium Black, Aluminium Silver, Chrome[4]
Dimensions in cm:
Diameter of floor plate: 50.0
Total height incl. Individual Compose 52"/46"/40":
128.6 / 119.3 / 112.0



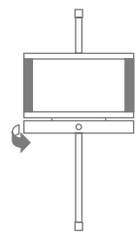
Screen Paravent for Individual 40 Selection, Individual 32 Selection, Individual 26 Selection
Manual rotation, TV tilting
Colour: Brushed Aluminium
Dimensions (W x H x D) in cm: 67.3 x 75.0 x 45.8
Diameter of floor plate in cm: 45.8

Floor Stand 5 MU SP for Individual Compose
Only in combination with Individual Sound Projector.
Motorised rotation,
remote controllable
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 56.0
Total height incl. Individual Compose 52"/46"/40":
126.2 / 116.8 / 109.4

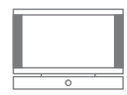
Screen Floor Stand I 52 MU for Individual 52 Compose
Motorised rotation,
remote controllable
Colour: Chrome coating
Dimensions (W x H x D) in cm: 64.6 x 50.0 x 55.4
Diameter of bar in cm: 6.0
Height of pole (visible) in cm: approx. 46.2

Screen Floor Stand MU for Individual 46 Compose, Individual 40 Compose, Individual Selection
Motorised rotation,
remote controllable
on Individual Selection up to 40": TV tilting
Colour: Chrome coating
Dimensions (W x H x D) in cm: 64.4 x 49.7 x 55.4
Height of pole (visible)[3] in cm: approx. 48.5

Screen Floor Stand for Individual 32 Selection, Individual 26 Selection
Manual rotation, TV tilting
Colour: Chrome Silver
Dimensions (W x H x D) in cm: 53.1 x 50.0 x 45.6
Diameter of bar in cm: 6.0
Height of pole (visible) in cm: approx. 40.1



Screen Lift Plus[1,2] for Individual 46 Compose, Individual 40 Compose, Individual Selection
Manual rotation, TV tilting
Individual height setting at installation
Colour: Brushed Aluminium
Diameter of bar in cm: 6.0
Height of pole in cm: 300.0



Screen Wall Mount 2[2] for Individual 46 Compose, Individual 40 Compose, Individual 46 Selection, Individual 40 Selection
TV rotates, tilts and swivels
Colour: Silver

Screen Wall Mount 1[2] for Individual 32 Selection, Individual 26 Selection
TV rotates, tilts and swivels
Colour: Silver

Wall mount WM 54 for Individual 46 Selection, Individual 40 Selection, Individual 32 Selection
Colour: Silver

Wall mount WM 55 for Individual 26 Selection
Colour: Silver

Motor Unit upgrade kit for Screen Table Stand for Individual 40 Selection, Individual 32 Selection, Individual 26 Selection
Motorised rotation
Colours: Chrome Silver, Metallised Chrome

[1] The Center speaker I Compose can be mounted on the Screen Lift Plus together with Individual Compose.
[2] Only in conjunction with a corresponding adapter, to be ordered separately.
[3] Visible height depends on TV set.
[4] Only available in combination with Individual 40 Compose in Chrome.

Accessories TV Individual

Individual

Inset Individual Compose
Colours: Ruby, High Gloss Black, Ebony, Rosewood, Light Oak, Metallised Chrome, Aluminium Silver

Individual 52 Compose
Dimensions inset (W x D) in cm: 4.4 x 75.7

Individual 46 Compose
Dimensions inset (W x D) in cm: 4.4 x 66.5

Individual 40 Compose
Dimensions inset (W x D) in cm: 4.4 x 59.0

Inset Individual Selection
Colours: Ruby, High Gloss Black, Orange, Apple Green, Ebony, Rosewood, Light Oak, Metallised Chrome, Aluminium Silver

Individual 46 Selection
Dimensions of panel inset (W x D) in cm: 4.4 x 66.5
Dimensions of speaker (W x D) in cm: 4.4 x 8.4

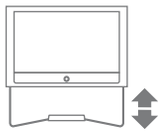
Individual 40 Selection
Dimensions of panel inset (W x D) in cm: 4.4 x 59.0
Dimensions of speaker (W x D) in cm: 4.4 x 8.4

Individual 32 Selection
Dimensions of panel inset (W x D) in cm: 4.4 x 46.9
Dimensions of speaker (W x D) in cm: 4.4 x 8.3

Individual 26 Selection
Dimensions of panel inset (W x D) in cm: 4.4 x 40.3
Dimensions of speaker (W x D) in cm: 4.4 x 8.3

Accessories TV Connect

Connect



Floor Stand Trapeze for Connect 42, Connect 37
Can be adjusted to three heights.
Lowest level is suitable for set-up on a lowboard.
Can also be used as a Table Stand (fourth level)[1].
Colour: Chrome-finished
Dimensions (W x D) in cm:
Connect 42": 104.4 x 37.8
Connect 37": 93.4 x 37.8
Height from floor to lower edge of TV in cm:
Level 1: 21.4 / Level 2: 26.3 / Level 3: 31.2
Total height incl. Connect 42":
Level 1: 90.8 / Level 2: 95.7 / Level 3: 100.7
Total height incl. Connect 37":
Level 1: 84.6 / Level 2: 89.4 / Level 3: 94.4

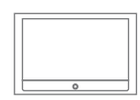
Floor Stand Trapeze for Connect 32
Can be adjusted to three heights.
Lowest level is suitable for set-up on a lowboard.
Can also be used as a Table Stand (fourth level)[1].
Colour: Chrome-finished
Dimensions (W x D) in cm: 80.4 x 37.8
Height from floor to lower edge of TV in cm:
Level 1: 21.1 / Level 2: 26.1 / Level 3: 31.0
Total height incl. Connect 32":
Level 1: 76.0 / Level 2: 81.0 / Level 3: 85.9

Equipmentboard for Floor Stand Trapeze for Connect 42, Connect 37, Connect 32
Additional board suitable for Floor Stand Trapeze.
Room for 1–2 peripheral devices (e. g. Viewvision).
Storage space for cables.
Colour: Silver
Dimensions (W x D x H) in cm: 40.0 x 34.0 x 10.0
Overall depth with Floor Stand Trapeze in cm: 40.5

Floor Stand 4 MU[2/3] for Connect 37 Media, Connect 32 Media
Motorised rotation,
remote controllable
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 50.0
Height of pole (visible)[4]: 42.5
Total height incl. Connect 37"/32":
105.6 / 97.2

Floor Stand 4[2] for Connect 42, Connect 37, Connect 32
Manual rotation
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 50.0
Height of pole (visible)[4]: 42.5
Total height incl. Connect 42"/37"/32":
111.8 / 105.6 / 97.2

Floor Stand 5 MU SP[2/3] for Connect 42 Media, Connect 37 Media
Only in combination with Individual Sound Projector.
Motorised rotation,
remote controllable
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 56.0
Total height incl. Connect 42"/37": 119.1 / 112.9



Wall mount WM 54 for Connect 42, Connect 37
TV tilting
Colour: Silver

Wall mount WM 56 for Connect 32
TV tilting
Colour: Silver

[1] The Floor Stand Trapeze can no longer be used as such once it has been converted to a Table Stand Trapeze.
[2] Only in conjunction with a corresponding adapter, be ordered separately.
[3] Only in conjunction with the motor control upgrade kit / RS 232 C.
[4] Visible height depends on TV set.

Accessories TV Art

Xelos / Modus

Xelos A 42 Rack for Xelos A 42 HD+ 100
Manual rotation
Colour: Platinum
Dimensions (W x H x D) in cm:
External dimensions: 99.1 x 40.0 x 52.7
Video compartment top and bottom:
95.3 x 11.0 x 38.5

Xelos Rack for Xelos A 37 HD+ 100, Xelos A 32 HD+ 100
Manual rotation, TV tilting
Colours: Platinum, Anthracite
Dimensions (W x H x D) in cm:
External dimensions: 99.1 x 40.0 x 52.7
Video compartment top and bottom:
95.3 x 11.0 x 38.5

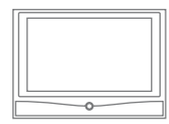
Floor Stand 5 MU SP for Xelos A 42 HD+ 100[1], Xelos A 37 HD+ 100[1,3]
Only in combination with Individual Sound Projector.
Motorised rotation,
remote controllable
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 56.0
Total height incl. 42"/37": 123.8/116.8

Floor Stand 5 MU SP for Modus L 42
Only in combination with Individual Sound Projector.
Manual rotation
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 56.0
Total height incl. 42"/37": 124.6/116.8

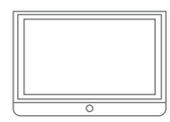
Floor Stand 4 MU[1] for Xelos A 42 HD+ 100, Xelos A 37 HD+ 100, Xelos A 32 HD+ 100
Motorised rotation,
remote controllable,
TV tilting (Xelos A 42 non-tilting)
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 50.0
Height of pole (visible)[2]: approx. 41.0

Floor Stand 4 for Xelos A 42 HD+ 100, Xelos A 37 HD+ 100, Xelos A 32 HD+ 100, Xelos A 26, Modus L 42, Modus L 32
Manual rotation,
TV tilting (Xelos A 42, Modus L 42 non-tilting)
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 50.0
Height of pole: (visible)[2]: 41.0

Flat-TV F-Stand 2 for Xelos A 20
TV rotating
Colour: Platinum
Dimensions (W x H x D) in cm:
External dimensions: 50.0 x 65.0 x 43.7



Screen Wall Mount 2[3] for Xelos A 42 HD+ 100, Xelos A 37 HD+ 100, Modus L 42
TV rotates, tilts and swivels
Colour: Silver



Screen Wall Mount 1[3] for Xelos A 32 HD+ 100, Xelos A 26, Modus L 32
TV rotates, tilts and swivels
Colour: Silver

Wall mount WM 61 (incl. Vesa) for Xelos A 42 HD+ 100, Modus L 42
Two tilt angles
Colour: Black

Wall mount WM 50 for Xelos A 37 HD+ 100, Xelos A 32 HD+ 100, Xelos A 26, Modus L 32
TV tilting
Colour: Chrome Silver

Wall mount WM 35 for Xelos A 20
TV rotating
Colour: Silver

[1] Only in conjunction with the motor control upgrade kit / RS 232 C.
[2] Visible height depends on TV set.
[3] Only in conjunction with a corresponding adapter, be ordered separately.

Accessories Audio

Individual Sound

Individual Sound S-Stand
(2 per set)
Colour: Aluminium
Dimensions in cm:
Diameter of floor plate: 20.1
Hight of pole: 88.6

Individual Sound Wall mount
(2 per set)
Colours: Chrome Silver, Anthracite

Floor Stand Subwoofer
Colour: Brushed Aluminium (with cable shield in Chrome Silver or Anthracite for Viewvision), Chrome (with cable shield in Chrome Silver for Viewvision)
Dimensions in cm:
Diameter of floor plate: 42.0
Total height incl. Subwoofer: 36.0

Insets for Individual Sound column speaker
(2 per set)
Colours: Ruby, High Gloss Black, Orange, Apple Green, Ebony, Rosewood, Light Oak, Metallised Chrome, Aluminium Silver
Dimensions (W x D) in cm: 8.3 x 8.3

Individual Compose

Center Floor Stand I Compose
Manual rotation
Colours: Aluminium Silver, Aluminium Black, Chrome
Dimensions in cm:
Diameter of floor plate: 50.0
Total height with 52": 128.6
Total height with 46": 119.4
Total height with 40": 112.0

Stereo speaker I Compose
The stereo speakers I 46 Compose can be combined with the Individual 52 Compose.
(2 per set)
Colours: Aluminium Silver, Aluminium Black
Dimensions (W x H x D) in cm:
46": 9.2 x 67.2 x 6.8
40": 9.2 x 59.7 x 6.8

Center speaker Table Stand I Compose
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 26.0
Total height incl. Center speaker I Compose: 11.0

Insets for Stereo speaker I Compose
(2 per set)
Colour: Aluminium Silver
Dimensions (W x D) in cm:
46": 4.4 x 66.4
40": 4.4 x 58.9

Insets for Center speaker I Compose
(2 per set)
Colours: Ruby, High Gloss Black, Ebony, Rosewood, Light Oak, Metallised Chrome, Aluminium Silver
Dimensions (W x D) in cm: 8.3 x 8.3

Individual Sound Projector

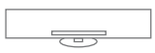


Table Stand Sound Projector
Colour: Brushed Aluminium
Dimensions in cm :
Overall height/width including Sound Projector:
23.2 / 101.5
Diameter of floor plate: 26.0

Floor Stand 5 MU SP
Only in combination with Individual Sound Projector.
The Individual Sound Projector can easily be combined with all Spheros, Compose, Connect, Xelos and Modus TV sets size 37" and over.
Motorised rotation,
remote controllable
Colour: Brushed Aluminium
Dimensions in cm:
Diameter of floor plate: 56.0

Technical glossary

100Hz technology (Fig. 1)

In 100 Hz technology, the projected picture is built up at double the speed of classic 50 Hz technology. This is achieved by firstly saving the received picture in the device and then displaying it twice, one after the other, by predicting the sequence of images and pre-calculating them accordingly. The picture is perceived as being "steadier". In the classic European 50-Hz standard technology, a new picture is set up 50 times per second, resulting in a picture frequency of 50 Hz. The human eye can still perceive a picture change at this frequency as a flicker, which only disappears at a frequency of around 75 Hz.

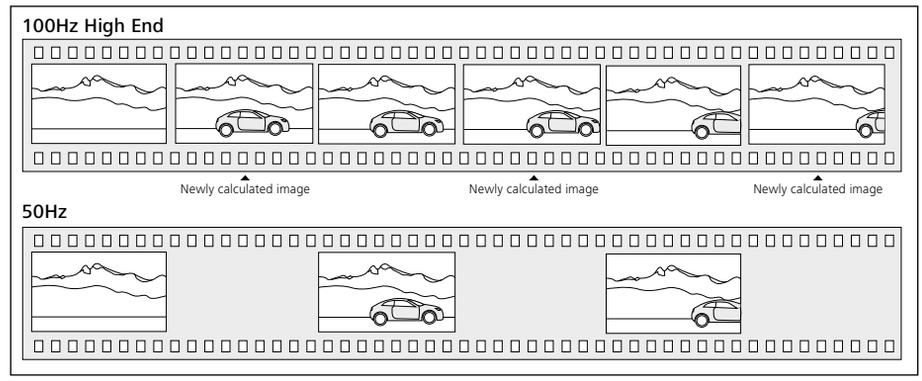


Fig. 1, 100Hz technology

10-bit Video Digital/Analogue Converter

In Loewe DVD recorders, this converter – in contrast to conventional circuitry – reproduces every detail of the picture source authentically. This results in razor-sharp, precise images even when faced with dark film sequences.

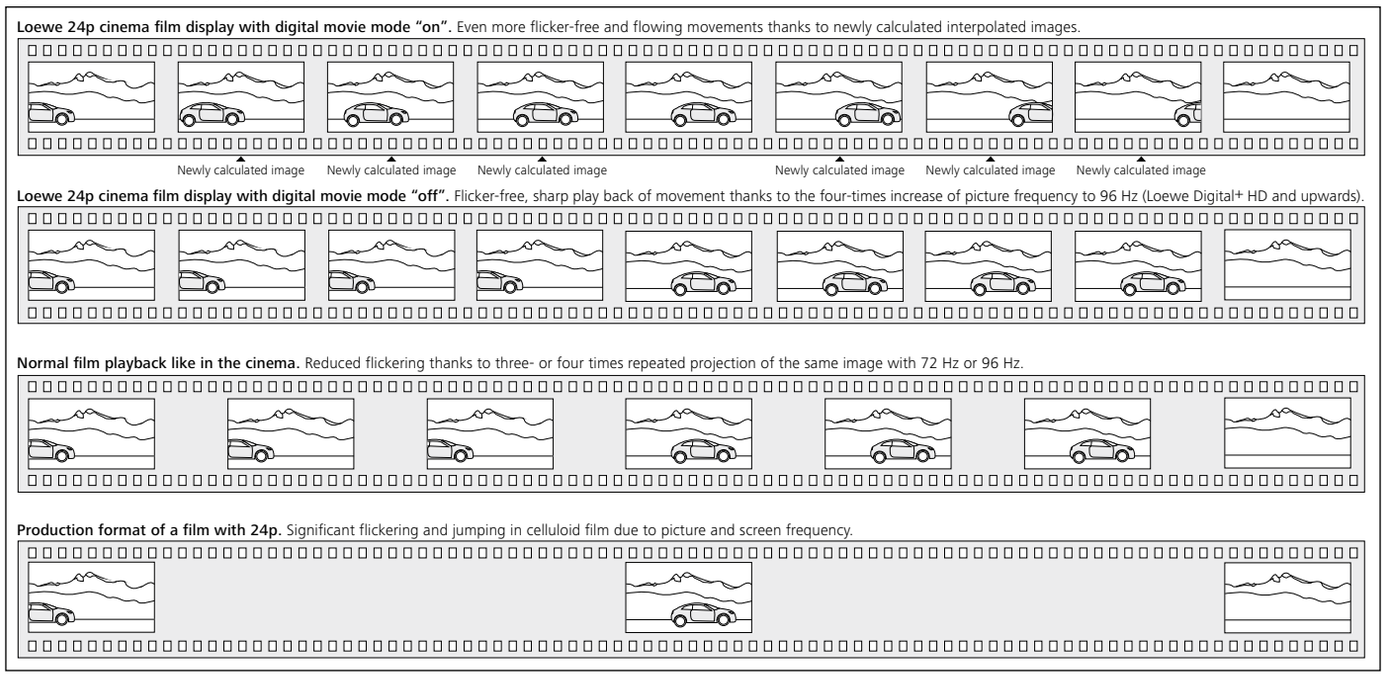
24-bit Audio Digital/Analogue Converter

Ensures maximum precision when audio signals are processed in a DVD recorder or audio system. This converter provides a dynamic bandwidth, outstanding signal-to-noise ratio and superior resistance to interference and component deterioration.

24p cinema film display (Fig. 2)

Films are shot at 24 complete pictures per second; European PAL standard productions for television and DVD are shown on sets with 25 complete pictures per second. Until now, this difference has led to visible side-effects. Since the creation of high-definition media such as Blu-ray discs, it is now possible to experience the original cinema quality at home. In order to do so, the 24p play back format must be supported by the Blu-ray player and the television. Of course, all new Loewe TVs and the Loewe Blu-ray player feature 24p cinema film display. In order to avoid large-scale flickering at this relatively low picture repetition rate of 24 Hz, each image is shown four times, as it is in good cinemas, increasing the picture repetition rate to 96 Hz. And because the new Loewe TVs can calculate additional interpolated images when the optional digital movie mode is activated, they also

Fig. 2, 24p cinema film display


Loewe 24p cinema film display with digital movie mode "on". Even more flicker-free and flowing movements thanks to newly calculated interpolated images.
Newly calculated image
Newly calculated image
Newly calculated image
Newly calculated image
Newly calculated image
Newly calculated image
Loewe 24p cinema film display with digital movie mode "off". Flicker-free, sharp play back of movement thanks to the four-times increase of picture frequency to 96 Hz (Loewe Digital+ HD and upwards).
Normal film playback like in the cinema. Reduced flickering thanks to three- or four times repeated projection of the same image with 72 Hz or 96 Hz.
Production format of a film with 24p. Significant flickering and jumping in celluloid film due to picture and screen frequency.

avoid the jerkiness typical in cinemas during pan shots, for example. In any event, the result is an extremely realistic picture experience.

3D comb filter
A 3D comb filter is effective during still picture sections and perfectly separates the luminance and colour signals.

5.1 Multi Channel Audio/Digital Multi-Channel Audio
Dolby Digital and MPEG 2 audio decoders provide 5 separate audio channels with full frequency bandwidth and a separate channel for the bass range (subwoofer). That's why it's called 5.1 digital multi-channel audio. Blu-ray players, DVD recorders, audio systems and TV sets with Digital+HD or Digital+HD 100 technology can process this innovative surround encoding procedure for surround sound like in the cinema.

Analogue reception
Besides the standard integrated or extendable digital reception options, all Loewe TV sets always receive analogue TV signals via antenna or cable insofar as the corresponding programmes are broadcast in analogue reception quality.

Assist+
Televisions with the fully digital platforms Digital+, Digital+ HD or Digital+ HD 100 feature the newly developed Loewe operating system, Assist+. It has a clearly-structured, easy-to-use guide and a simple overall design. Navigation requires just a few buttons on the Assist remote control. With the new design, infrequently used sub-menus are faded out so the menu doesn't cover the whole TV screen. Settings such as volume and personal Videotext pages can be saved. In conjunction with Digital+ HD, you can edit up to 6 favourites lists of 99 channels each – so everyone at home can find their favourite channel quickly.

Audio/Photo card reader
The audio/photo card reader can read digital memory cards, e.g. from digital cameras. The memory cards are inserted directly into the DVD recorder. That means you can view digital photos on the screen, amongst other things. The card reader can play back pictures (JPEG) and MP3 files.

Automatic Channel Programming (ACP)
Registers all receivable channels the first time you switch on the television – even those received by the integrated satellite tuner – and programs them in a country-specific sequence. Abbreviated channel designations are copied directly, if provided by the station.

Automatic Gain Control (AGC)
Automatically optimises the contrast and colour settings of the television picture, even with fluctuating input levels.

Automatic Movie Detection (AMD)
On programmes transmitted in a format with black bars across the top and bottom of the screen, the set automatically recognises whether a zoom display is possible and switches to the optimum zoom factor, i.e. the bars are eliminated from the picture.

Automatic switch-off
With the automatic switch-off function, the television set turns itself off after a pre-programmed period of time.

Automatic Volume Control (AVC)
Automatically smoothes out sudden increases in volume when changing channels or during commercials. The volume remains approximately the same. This function depends on the signal format emitted by station.

AV port
This is a port on the front of the TV set for S-VHS/-Hi-8-camcorder (Hosiden connector), VHS-8mm camcorder (video RCA/phono jack) and for sound (stereo RCA/phono jack). It facilitates copying from a camcorder, for example, to a connected DVD recorder.

Bass Reflex
Speaker chassis in closed cabinets absorb sound components emitted to the rear. Bass reflex speakers feature a precisely calculated opening in the cabinet to use this reflected sound. This opening produces broad low range bass imaging and higher acoustic pressure.

Black Level Expander
Grey pictures are corrected towards black. Contrast and the depth of focus impression are thus increased.

CD Text
In addition to music, audio CDs can also store text such as the CD name and artist. Devices equipped with this feature display this additional information.

Child Lock
Blocks selected channels or the whole TV set using a PIN code. This feature can be set for activation at a certain time of day or above a certain age.

Cinema
Cinema mode enlarges the 4 : 3 picture for proportionally correct display on a 16 : 9 screen.

Colour Transient Improvement (CTI)
Improves the colour signals and ensures a sharper edge demarcation with a special edge control switch.

Comb filter
Comb filter is the term used to describe a filter circuit that can re-separate frequency spectra such as luminance or colour signals interlaced according to a fixed pattern. On conventional sets this separation is performed by simple filter circuits (passes). However, parts of the other respective components are hereby retained in the separated signals. This leads to unavoidable interference. Comb filters separate both spectra practically interference-free. The result is clearly defined picture borders and higher definition with stiller pictures.

Common Interface (CI-Slot)
Common Interface is a standard interface. Coded digital channels may be used by inserting the appropriate decoding module (Conditional Access Module) and an activated Smartcard.

Conditional Access Module (CA-Modul)
The CA module contains the decoding system and compares the transmitted code with that on the SmartCard. If the two match, the corresponding programmes are decoded. CA modules for commercially available decoding systems (e.g. Irdeto, Cryptoworks, Viaccess) are available from specialist retailers.

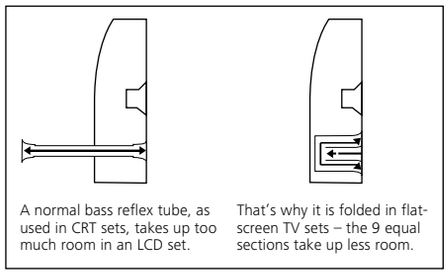
Connect+
Connect+ allows you to connect a variety of peripheral devices to your Loewe TV set. The versatile USB port enables additional devices such as a digital camera or card reader to be connected. Signals from Blu-ray players, DVD recorders or games consoles are transferred via the digital HDMI port with no loss of quality. The Home Installer interface allows your Loewe TV set to be connected to home networking systems from leading manufacturers such as AMX, Crestron.

Copy-to-Card function
A Loewe DVD recorder function. Makes it possible to copy digital photos (JPEG) or audio files (MP3) from CD to memory card in the audio/photo card reader.

Copy-to-DR+ function
A function in the Loewe Viewvision DR+ and Viewvision DR+ DVB-T DVD recorders, which enables content such as digital photos or MP3 audio files to be copied from the audio/photo card reader, USB memory or CD onto the DVD recorder's integrated hard disk.

CRX®-Soundsystem (Fig. 3)
When speakers are flat, the CRX® Sound System (Coaxial Reflex Sound System) makes it possible to accommodate the necessary bass reflex pipe, providing rich bass playback on flat-screen TV sets without loss of sound.

Fig. 3, CRX®-Soundsystem



A normal bass reflex tube, as used in CRT sets, takes up too much room in an LCD set.

That's why it is folded in flat-screen TV sets – the 9 equal sections take up less room.

Custom File
This function allows you to save your favourite songs on a particular CD in the memory of the device (max. 20 entries). The selected songs are then played in the order programmed without interruption. The programmed selection is saved and will be available the next time the same CD is inserted.

Diagonal Contour Control (DCC)
Diagonal lines come across as steps on large screens, especially during movement. DCC considerably reduces this effect. Diagonal lines are thus displayed smoothly during camera movement and without a "stair-step effect".

Digital Link
Digital Link allows Loewe peripherals to be operated, even if they are in concealed set-ups. Connection to a Loewe TV set with a Scart cable is required for this.

Digital Link HD
TV set and external device exchange data via the HDMI interface and make the system easier to operate.

Digital Link Plus
The TV set and DVD recorder exchange data using Digital Link Plus (e.g. analogue programme list or timer data). This allows the TV set to control recording.

Digital Movie Mode (DMM)
Studio recording, live broadcast or feature film – the broadcast image is always optimally decoded. Still images are played back with maximum sharpness and completely motionless. DMM creates intermediate images to enable perfect studio quality, even with quick movements.

Digital Noise Control (DNC)
Weak TV signals can cause annoying picture noise. DNC works to digitally suppress this noise.

Digital Power Amplifier
In comparison to conventional analogue amplifiers, the digital signal is amplified here. Only then does the conversion from digital to analogue take place. The energy is more efficiently used (90 % efficiency) and is transformed into power output. The use of digital components enables the development of smaller and slimmer amplifiers.

Digital+
DVB-T and DVB-C reception is already integrated in Loewe TV sets operating on the Digital+ platform DVB-S can also be easily retrofitted. With the standard Common Interface you can receive certification-free Pay-TV channels and encrypted channels. All flat-screen TVs with Digital+ are HD ready, meaning that they can receive HDTV signals with an external set-top box.

Digital+ HD
Loewe TV sets with Digital+ HD are HDTV-ready. Reception of high-definition television images via DVB-T, DVB-C and optional DVB-S is already integrated. The integrated DR+ hard disk recorder even allows you to record HDTV content. The new further developed Digital+ HD 100 technology is used with products with 100 Hz technology.

DivX
A format for compressing video data. Based on the MPEG-4 format.

Dolby Digital
The digital standard for high-quality home cinema systems. With this standard individual channels are transmitted separately. The three front channels on the right, left and centre, the two surround channels on the right and left and the external subwoofer channel are also termed as a 5.1 signal. Another term for Dolby Digital is AC3.

Dolby Digital Plus
Dolby Digital Plus is a new, improved process for encrypting audio signals. It is compatible with modern home cinema systems and is supported by Loewe Blu-ray players, for example.

Dolby ProLogic
Converts Dolby coded stereo signals into surround sound. It usually features four channels (left, centre, right, surround). No special subwoofer channel is created.

Dolby ProLogic II
A newer version of Dolby Pro Logic. Using highly advanced mathematical models this process generates six-channel surround sound (left, centre, right, surround right, surround left, subwoofer) from a stereo or Pro Logic signal.

Dolby TrueHD
Dolby TrueHD is a surround sound format with no loss of quality developed for high-definition media such as Blu-ray, and which is identical to the original recording in the studio. This format is compatible with modern home cinema systems and is supported by Loewe Blu-ray players, for example.

Dolby Virtual Speaker technology
Dolby Virtual Speaker technology simulates surround sound playback from a real 5.1 channel speaker system with just two speakers. This uses advanced algorithms and technologies for room modeling, in order to reproduce the audio spectrum and dynamics of real 5.1 channel speakers. Dolby Virtual Speaker complements modern flat-screens and is ideal for rooms in which a 5.1 speaker system cannot be used due to cost or installation effort.

Downscaling/upscaling
By connecting various peripherals via a digital AV interface the TV set receives different signals in different resolutions. The electronic system in the TV recognises this and automatically adjusts the resolution to match the display resolution. This means, for example, that when a laptop is connected, the 640 x 480 pixels resolution is automatically upgraded to the optimal display resolution of 1,366 x 768 pixels.

DR+
The integrated DR+ hard disk recorder is optionally available ex works for almost all Loewe TVs with the Digital+ HD 100, Digital+ HD and Digital+ platforms. This allows you to record television programmes very easily at the touch of a button, or interrupt the current programme by pressing the pause button on your Loewe remote control, and even rewind television with the backwards button.

DTS – Digital Theatre Sound
An increasing number of feature films are mixed in this audio format to achieve special sound effects. Loewe DVD recorders, Blu-ray players and audio systems can read DTS Surround signals from the DVD. For a unique home cinema experience.

DTS HD
DTS HD is a new means of encrypting high-resolution audio signals. It is compatible with modern home cinema systems and is supported by Loewe Blu-ray players, for example.

Dual Laser
Different types of discs such as DVDs or CDs place different demands on the laser. That's why Loewe puts two lasers in all DVD players and audio systems. One laser is designed especially to read DVDs and a second is used to read CDs (including home recorded CD-Rs or CD-RWs). As each laser is specifically designed for one task, the best audio and video performance is guaranteed.

DV Port
The DV port is required to connect a camcorder with a suitable output to a DVD recorder. The connection type is also known as FireWire.

DVB
A project, originally founded in Europe, for developing digital television standards. The so-called DVB standards (for satellite: DVB-S or the newer DVB-S 2, for cable: DVB-C, and for terrestrial: DVB-T) are now the most widespread standards for digital television in the world today. Loewe sets with the Digital+ and Digital+ HD technology platforms are designed for these reception formats.

■ **DVB-T**
All Loewe products with Digital+/ Digital+ HD technology feature an integrated DVB-T tuner ex works. This enables them to receive free digital channels without an additional set-top box. Sets with an integrated DR+ hard disk recorder can even do so in dual-mode.

DVD Audio
This high-definition audio format provides top-quality sound that is even better than a conventional CD. In addition to music, DVD audio can also offer visual elements such as lyrics, still frames and animations. Just as with DVD video, DVD audio can contain videos with the Dolby Digital 5.1 audio format.

Dynamic contrast ratio
Panel luminosity is adjusted when the picture features a high proportion of black. The so-called backlights are automatically dimmed and the contrast ratio is increased for this picture, i.e. dynamically.

Electronic Programme Guide (EPG)
The EPG is updated daily to guide you through digital television programming directly on-screen. EPG provides an advance view of several days' programmes for individual stations. Service information/next view data reception is required for this. When marked accordingly, programmes can be recorded, the station changed or the TV even switched on from stand-by mode.

Ext. 16 : 9 Mode
This enables the play-back of 16 : 9 pictures from external sources, that were, for example, recorded using a 16 : 9 camcorder. Only the width of the picture needs to be expanded to display the correct picture proportions on 16 : 9 TV sets.

Full-HD 100Hz LCD technology
Full-HD-100 Hz LCD displays are suitable for processing the 100 Hz picture repetition rate. These LCD displays have a resolution of 1,920 x 1,080 pixels.

Full-HD LCD technology (Fig. 4)
Full-HD-LCD displays can show the supplied 1,920 x 1,080 pixel 1:1 resolution.

HD-ready
HD ready is used to describe sets that are able to display HDTV signals on screen. HD ready sets have a native resolution of at least 720 lines on a 16 : 9 scren format. Furthermore, at least one component port is available, such as a HDMI or DVI port with HDCP.

HDCP (High Bandwidth Digital Content Protection)
HDCP is the digital copy protection accepted by film studios. Films protected this way can only be shown via the digital inputs if the DVI or HDMI interface of both the feeding device and the display feature HDCP.

HDMI (High Definition Multimedia Interface)
HDMI is the new standard for connection and interfaces in consumer electronics. Picture and audio signals are transmitted in a purely digital form with unprecedented brilliance and quality. For videos, HDMI is PIN compatible with DVI.

HDTV
HDTV stands for "high-definition television". Whereas TV pictures conforming to the current PAL standard consist of 625 lines, HDTV has 1,080 scan lines (European standard in full-screen mode). The advantages of this are a considerable improvement in sharpness and impressive depth.

HDTV 1080p
This describes Full-HD flat-screen TVs that are suitable for receiving, processing and displaying high-definition programmes with 1080p (incl. 24p cinema film display support). Loewe sets with the Digital+ HD platform and Full-HD display meet the requirements for this logo.

Help function
On the Assist+ menu on Loewe TV sets, pressing the i key calls up information about each menu option. This makes it easier to learn how to operate Assist+.

Home Cinema
With an external loudspeaker system you can turn your television into your own home cinema. For a surround sound experience, a decoded Dolby Digital sound signal is normally divided between five speakers and a subwoofer. It's also possible to create the impression of surround sound with fewer speakers, e.g. with Virtual Dolby Speaker technology.

Home networking with RS 232
The new Digital+ HD platform features an integrated RS 232 interface, also available as an upgrade kit, which allows Loewe to be easily incorporated into existing and new home network systems such as those from AMX or Crestron. The operator panel of the network system acts as the control centre, meaning that the TV set can be controlled from any position in the house. The Loewe customer can, for example, switch their TV and radio on and off, change channel and mute. A DR+ recording can also be activated from the Touch Panel – even if the TV set isn't actually on at that moment.

Hybrid tuner
Receiver for both analogue and digital programmes. In addition to analog cable and antenna signals, Loewe's current hybrid tuner can receive DVB-T and DVB-C programmes. That means that digital television requires no additional tuner. The hybrid tuner is an integral part of the TV sets based on Digital+.

Image Basic
Image Basic unites the following different image enhancement techniques on Loewe TV sets:
Contrast
- AGC (→ Automatic Gain Control)
- Black Level Expander (→)

Motion
- DMM (→ Digital Movie Mode)
- DCC (→ Digital Contour Control)

Sharpness
- LTI (→ Luminance Transition Improvement)
- Comb filter (→)

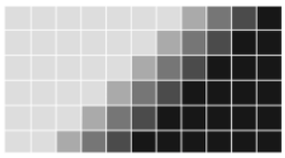
Colour
- CTI (→ Colour Transient Improvement)

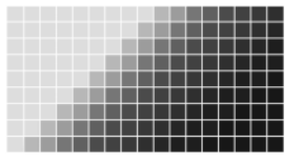
Noise suppression
- DNC (→ Digital Noise Control)

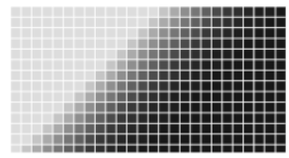
Image+
Image+ combines the individual image enhancement techniques of Image Basic. Due to the optimum interaction of the individual components, a richly contrasted, sharp, realistic, colour-true and vivid TV picture is achieved. Furthermore, special technologies such as Image+ Contrast or Image+ Sharpness are additionally applied to display individual pictures with even greater sharpness, contrast and colour fidelity.

Image+ HD
Image+ HD operates with a higher computer efficiency than Image+, as further image enhancement levels are incorporated in the optimisation process. A contrast sensor in Image+ Contrast HD measures room brightness and adapts the television contrast accordingly. The Image+ Sharpness HD 3D comb filter assures that fine structures and features are displayed in even greater detail. Image+ Colour HD eliminates what are known as cross colour effects that may

Fig. 4, Full-HD LCD technology


Resolution: 768 x 576 pixels
Approx. 400,000 pixels at PAL standard


Minimum resolution: 1,366 x 768 pixels
Approx. 1,000,000 pixels at HD ready standard


Full HD resolution: 1,920 x 1,080 pixels
Approx. 2,000,000 pixels at HDTV standard

occur with fine patterns, while Image+ Motion assures exceptionally steady picture quality during camera movement. Image+ HD is designed for HD signals and optimal control of Full-HD panels.

Image+ HD 100
With Image+ HD, Loewe perfects picture optimisation, even for HD signals. Thanks to the individual modules, 100 Hz, 24p cinema film display and HD Motion dejuddering pictures flow beautifully, are extremely sharp and rich in detail, even when it comes to rapid movement.

Individual Sound Projector (Fig. 5)
The Individual Sound Projector provides authentic 5.1 surround sound from just one speaker. Its 40 individual speakers use the walls of the room to direct the sound reflections precisely. The room's acoustics are measured automatically, and the sound waves are adjusted exactly according to the angles of incidence and reflection, depending to site, lay-out and set-up of the room. A measuring microphone is supplied. Manual set-up is also possible for fine tuning. With the Individual Sound Projector you can experience perfect surround sound from all directions without making any concessions to your living space.

LCD HD technology
On larger LCD screens this technology offers an even more detailed picture. HD displays are suitable for showing HDTV.

LCD Technology
LCD screens consist of two backlit glass panels. Sandwiched between these two panels is a liquid (liquid crystal) stored in individual chambers whose molecules change their orientation when electrical voltage is applied. That is how the picture is created. The result is very compact construction, energy efficient displays and perfect picture quality.

L-Link
This feature is the intelligent system connection between Loewe TV sets and audio systems for exchanging information automatically. It makes operating the television and Loewe system components easier than ever.

Luminance Transition Improvement (LTI)
LTI eliminates artificial shadows created during light to dark transitions. Pictures are thus displayed in more detail and writing is much clearer.

Main Information
This is an electronic handbook containing general operating instructions and detailed descriptions of applications. Use keyword search for quick access.

MediaNetwork
Describes the content which can be accessed via the network with Connect. Pictures, music and video files can be received and played back by Connect. Images are shown in high-definition; an automatic slide show is also possible. Search functions help to find the desired picture quickly. Music files can be sorted and searched for according to artist, album etc. (when the necessary information has been provided). Music can also be played in the background during a slideshow. Videos are also shown at a resolution of up to 1,920 x 1,080 pixels.

MPEG 2
MPEG 2 video is a standard used for transmitting digital TV programmes. Thanks to data compression, the band width of available TV channels can be used efficiently.

MPEG 4
Data compression standard for HDTV transmission. Permits optimum use of the transmission band width in the individual distribution channels. MPEG 4 is established as the European HDTV standard.

MPEG Encoder
Permits recording of analogue programmes on TVs that operate on the Digital+ HD platform and have DR+ integrated.

Multi-format recorder
Multi-format recording means that different disc formats can be played in

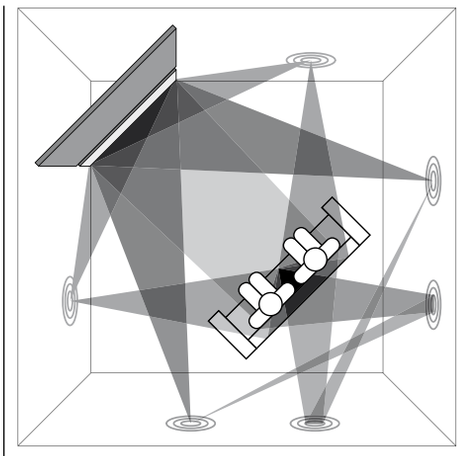


Fig. 5, Individual Sound Projector

the intended standards. The most widespread recording is done in DVD+R/RW and DVD-R/RW disc formats. Multi-format recording ensures compatibility with most commercially available DVD players. It goes without saying that the multi-format recorder can also play DVDs and CDs.

MusicBox
Music files in MP3 format saved on a USB stick or a memory card in a card reader can easily be played with the MusicBox. The content of the storage media can be browsed and/or sorted according to certain criteria (file name, title, artist, album) using the coloured buttons and saved in the playback list in the common M3u format.

Network connections (Fig. 6)
With LAN, WLAN and Powerline, all Loewe Connect Media models offer three different network options which allow you to access mutlimedia content on the home network directly, e.g. from a connected PC, network hard drive or other Connect TV sets. Connect can be connected via LAN to the router using an Ethernet network cable, and thanks to the high data rate, even HD videos can be transferred to the television. The WLAN interface, also integrated, enables the wireless exchange of data. With Powerline, you can transfer data via the mains using the optionally available dLAN 200 AV adapter. This method is also suitable for HD videos thanks to the high speed. Powerline uses the existing mains

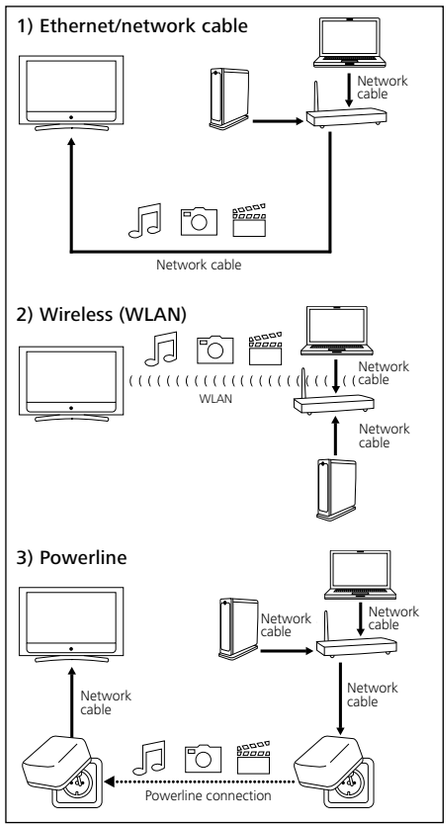


Fig. 6, Network connections

and is therefore particularly convenient to install.

Network Media Player

Loewe Connect is equipped with a Network Media Player, which allows you to play multimedia content (photos, music files, videos) saved on a storage medium in your home network and made available by a media server. The Network Media Player can access a variety of types of storage media in the network (e.g. PCs, Network Attached Storages (NAS)). The TV set can be connected to the home network using a cable (LAN, Powerline) or via a wireless connection (WLAN). The Network Media Player supports the UPnP AV standard.

Now&Next

Gives you a look at the next approx. 24 hours, and boasts the same functions as the Electronic Programme Guide (EPG).

Panorama (picture format)

This mode allows virtual full format display of 4 : 3 PAL broadcasts on a 16 : 9 screen. The station's logo and captions are preserved.

Panorama (sound)

Converts stereo signals into virtual surround sound. The sound fills the room, broadening the audio zone.

Personalised Videotext

For quick and direct access to your favourite Videotext pages. Preferred pages are automatically updated when the TV set is switched on.

PIP (AV)

With PIP-AV, a picture from an external source such as a DVD recorder can be displayed at the same time as the television picture without any additional receiver (unlike full PIP).

PIP (Full PIP)

The TV is equipped with a second receiver. This second receiver makes it possible to display a second channel as picture-in-picture via a cable TV connection, a terrestrial antenna or an integrated Twin Sat upgrade kit. Restricted DVB and HDTV reception may occur.

Power consumption in stand-by mode (in watts)

In compliance with the relevant standard, Loewe TV sets have an „active stand-by mode, low stand-by" or „Stand-by active low", as it is possible to turn on the products not only using the remote control or timer, but also from the additional devices (e.g. from the Auro).

Power consumption per annum (in KWh)

Calculated from 20-hour stand-by mode daily, with a 4-hour play duration per day, multiplied by 365 days.

Power consumption when on (in watts)

In accordance with the standard EN 62087, the power is measured using a black and white test picture. The brightness of the white area is set to 80 cd/m², the black to 2 cd/m² and the sound output power to 50 mW.

Power consumption when the device is turned off

Loewe TV sets have a two-pole disconnect switch which separates the device from the power network when it is off. In this state, no power is consumed.

Progressive Scan Output

High-quality output for picture signals. Suitable for connecting all Loewe flat-screen TV sets with the HD ready seal of approval.

Pulse Code Modulation (PCM)

PCM is the standard procedure when recording digital audio signals on audio CDs. DVDs are able to record more data. That's why they record using the linear PCM process, which uses a higher sampling frequency.

Response time

The time it takes liquid crystals to change from an inactive (blocks light) to an active (light passes through) state when an electrical charge is applied. The shorter the response time, the faster the picture is formed and the fewer picture artifacts. Different measuring techniques result in different information: black and white are not always assigned to the inactive to active range, switching times between light and dark grey are also often stated.

Resume Function

Loewe DVD recorders store the beginning and ending positions for the disc currently inserted. If you have to stop a DVD film partway through, the player 'remembers' the exact position the next time it is turned on.

SmartCard

The SmartCard is an electronic chip card issued by the respective broadcaster or registration-free pay TV operator. It contains the code that is decoded by the CA module.

Split Screen Display

TV/AV: On all Loewe televisions with a DVD recorder or audio system connected you can split the screen to view the TV

programme and a DVD side by side in the same size.
TV/TV: On some Loewe TVs with 16 : 9 displays the screen can be split equally so you can watch two programmes simultaneously.
TV/Videotext: On all models size 26 and up you can split the screen to view the TV programme and Videotext side by side in the same size.

Static contrast ratio
Describes the difference between the brightest and darkest picture display.

SVCD
The data transfer rate of an SVCD (Super Video Compact Disc) is double that of a VCD. The quality is far superior to that of VHS. Unlike VCDs, a second language and fading-in of subtitles are possible with SVCDs.

Time Search
When you input the appropriate time information, this function allows you direct access to a particular film sequence on a DVD.

VCD
On a VCD (Video Compact Disc), films can be stored with a resolution of 352 x 288 pixels (PAL) coded according to MPEG 1 at 25 frames per second. The quality is slightly superior to that of VHS. With the standard VCD 2.0, MPEG still frames with a resolution of 704 x 576 pixels can also be displayed using a suitable player. Loewe DVD recorders are capable of VCD format 2.0 playback.

Video Automatic Channel Programming
This feature automatically programs all receivable television channels and sorts them according to a pre-set sequence. The station abbreviations for the programme overview are copied directly from the broadcasting station, if available. Individual changes to the programme memory slots or the station's abbreviated designations can easily be made at any time. This convenient automatic tuning feature also offers a major benefit in conjunction with Digital Link Plus, as the connected DVD recorder stores the stations in the same sequence (only with cable and terrestrial reception).

Videotext Level 2.5
Videotext with considerably more colours as well as higher resolution graphics for a vivid, enhanced display. Videotext Level 2.5 is broadcast by an increasing number of television stations.

Videotimer
The Loewe TV set and DVD recorder work together perfectly for timer-controlled video recordings - even for satellite broadcasts. With manual programming, only the channel and record times need be set. The Loewe DVD recorder then receives its commands from the TV. It's even easier to program your DVD recorder using the EPG electronic programme guide on your Loewe TV.

Zoom
This feature improves the proportionally correct presentation of widescreen films on the 16 : 9 screen when transmission is in the 4 : 3 PAL standard. With Zoom you can fade out the black bars at the upper and lower edges of the picture.

Dolby Digital is a registered trademark of the Dolby Laboratories Licensing Corporation.
DTS is a registered trademark of Digital Theatre Systems, Inc.
Circle Surround is a registered trademark of SRS Labs, Inc.
Digital Sound Projector is a trademark of 1 Ltd.

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